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**(54) ELECTRON BEAM WELDING DEVICE**

**(57) Abstract:**

**PURPOSE:** To enable to sufficiently utilize the effect of shield gas and to prevent oxidation of welded parts even when high speed weldings are performed, by installing a shield gas blowing out nozzle at a place locating after the beam irradiating nozzle in devices which perform the welding in an inert gas atmosphere.

**CONSTITUTION:** Gas nozzle 12 which blows out the after flow gas is installed after guide nozzle 11 in the progressive direction A of welding. An inert gas, such as Ar, He, etc., is blown from nozzle 12 through narrow hole 13 onto half-molten metal 14, welding on which has just completed by beam 10. In this way, metal 14 is completely shielded with the inert gas.

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